

Inclusion of 3D Artifacts into a Digital Library: Exploring Technologies and Best Practice Techniques

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DLF Forum

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3D Technology Journey

2009



- March 2015
Benjamin Harrison Presidential Site



Technology Hardware and Software

- Creaform Go!SCAN 3D
 - White light scanner
 - Point and shoot, collects color data
 - High levels of accuracy

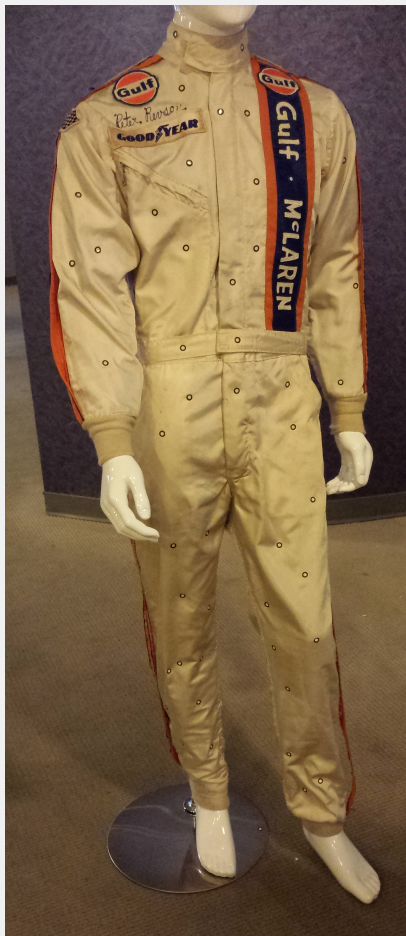
Scanning Kit

- Robust processing laptop
- Turntable
- Powder kit for scanning shiny objects
- Kneaded erasers
- Board with targets



Collaboration with School of Informatics

Indianapolis Motor
Speedway Museum

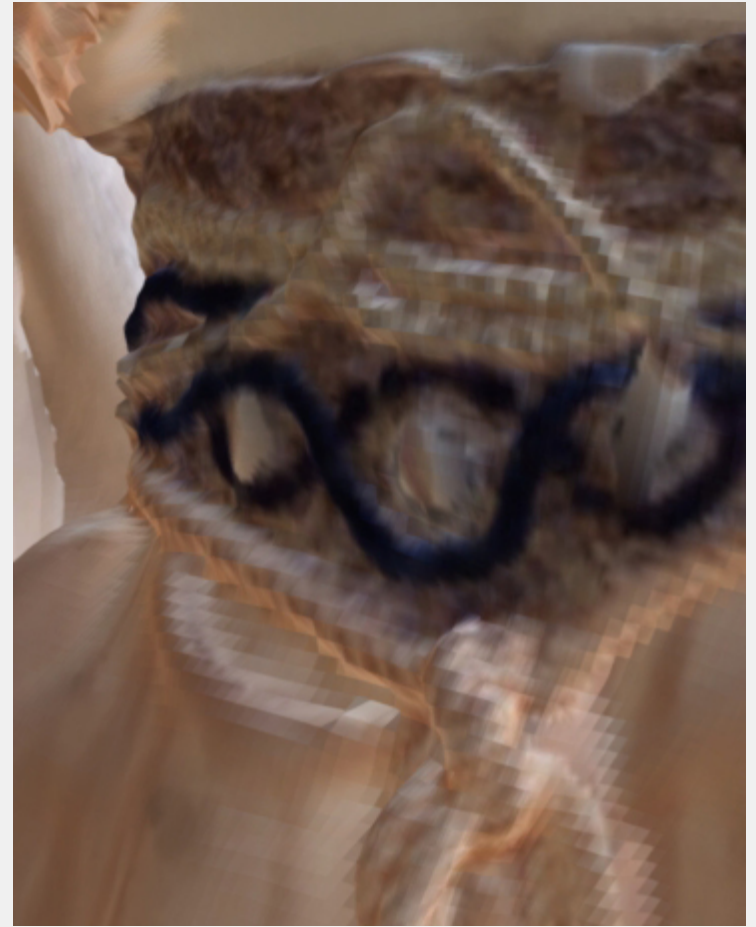


Dance Kaleidoscope



















































Conner Prairie Interactive
History Park

Varied results



Disorganized files

	carolineHarrison_paintedChina_creamPourer_btm	6/11/2016 5:35 PM	VXelements Sessio...
	carolineHarrison_paintedChina_creamPourer_merged	6/11/2016 5:38 PM	VXelements Sessio...
	carolineHarrison_paintedChina_creamPourer_merged_0.5mmRes	6/11/2016 5:36 PM	BMP File
	carolineHarrison_paintedChina_creamPourer_merged_0.5mmRes	6/11/2016 5:36 PM	MTL File
	carolineHarrison_paintedChina_creamPourer_merged_0.5mmRes	6/11/2016 5:36 PM	OBJ File
	carolineHarrison_paintedChina_creamPourer_top	6/11/2016 5:37 PM	VXelements Sessio...
	carolineHarrison_paintedChina_platter_btm	6/11/2016 5:39 PM	VXelements Sessio...
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	carolineHarrison_paintedChina_platter_merged_0.5mmRes	6/11/2016 5:39 PM	OBJ File
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	carolineHarrison_paintedChina_sugarDish_Lid_merged_0.5mmRes	6/11/2016 5:43 PM	OBJ File
	carolineHarrison_paintedChina_sugarDish_Lid_top	6/11/2016 5:43 PM	VXelements Sessio...
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	PeachVelvetOutfit_export_decimated.mtl Uploaded Oct 13, 2016 by  129 B
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	PeachVelvetOutfit_export_highResolution.mtl Uploaded Oct 13, 2016 by  134 B
	PeachVelvetOutfit_export_highResolution.OBJ Uploaded Oct 13, 2016 by  342 MB

Folder structure

- Original
- VX Elements fixed
- Z Brush fixed
- Z Brush additions
- VR/AR
- 3D print

File naming conventions

1. Acronym for project – CP for Conner Prairie
2. Short description of item – plow
3. Acronym for folder – O, VX, ZB, ZA, VR or 3D
4. Description of the side or part if multiple scanning sessions for one object

CP_plow_left_O

CP_plow_right_O

CP_plow_merged_O

Next Steps

- Many years ago, best practices were established for 2D objects
- We have not been able to locate standards that apply to 3D objects for libraries and museum
- Recently applied for an IMLS Leadership grant to explore and document the workflows that Anna described

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